ECONOMICS (ECON)

ECON 8010 SEMINAR PUBLIC FINANCE (3 credits)
This course is designed to develop the tools of applied welfare economics and to use these tools to evaluate the expenditure and tax decisions of governments. The structure, effects and reform of the U.S. individual and corporate income taxes will be emphasized.
Prerequisite(s)/Corequisite(s): ECON 3200 or ECON 8210 or BSAD 8100 or permission

ECON 8020 ENVIRONMENTAL ECONOMICS AND MANAGEMENT (3 credits)
This course covers topics related to environmental economics and policy, with an emphasis on comparative policy analysis and business strategies towards the environment. (Cross-listed with BSAD 8020).
Prerequisite(s)/Corequisite(s): ECON 2200 and ECON 2220 or BSAD 8180, or permission of the instructor. Not open to non-degree graduate students.

ECON 8050 ECONOMIC EDUCATION (3 credits)
A study and examination of economic principles and how they can be related to the teacher's classroom presentation. This course is designed to furnish the public school teacher (K-12) with sufficient background and understanding to aid in the recognition of economic issues and the teaching of economic concepts and principles.
Prerequisite(s)/Corequisite(s): No previous course work in economics. Not open to Economics majors.

ECON 8160 SEMINAR IN LABOR ECONOMICS (3 credits)
A study of the demand for labor, the supply of labor, the theory of compensating differentials, investment in human capital, worker mobility, discrimination, unions, inequality and unemployment.
Prerequisite(s)/Corequisite(s): ECON 3200 or ECON 8210 or BSAD 8100 or permission.

ECON 8200 SEMINAR IN MICRO THEORY (3 credits)
This course deals with the current state of microeconomic theory. The major topics covered are the theory of consumer behavior, theory of production and cost, theory of the firm, distribution theory and welfare theory.
Prerequisite(s)/Corequisite(s): ECON 3200, ECON 3220 and ECON 8306 or permission.

ECON 8210 MANAGERIAL ECONOMICS (3 credits)
Microeconomics for graduate students of business. Economic analysis of the business firm and its environments, with emphasis on market structure, production possibilities and cost factors. Additional consideration is given to the theory of the firm under conditions of uncertainty. (Cross-listed with BSAD 8100).
Prerequisite(s)/Corequisite(s): Graduate student in economics and ECON 2200 or equivalent.

ECON 8216 INDUSTRIAL ORGANIZATION (3 credits)
This course applies economic analysis to public policy issues in industrial economics. It is concerned with the strategic behavior of firms: the nature of interaction among competing firms within a game-theory framework. Among the topics covered are: discriminatory pricing, predatory conduct, product design, patent infringement, price wars, location decisions, and entry-deterrence. (Cross-listed with ECON 4210).

ECON 8220 SEMINAR IN MACRO THEORY (3 credits)
This course traces the development of macroeconomic theory from the classical point of view to current schools of thought. Keynesian, neo-Keynesian and neo-classical models are developed.
Prerequisite(s)/Corequisite(s): ECON 3200 or ECON 8210 or BSAD 8100, ECON 3220, and ECON 8306, or permission.

ECON 8230 BUSINESS CONDITIONS ANALYSIS (3 credits)
This course is concerned with the statistical measurement and evaluation of general business conditions, and the adaptation of business policies to changing business conditions. Emphasis is placed upon the practical application of statistical techniques of analysis to the business situation, within the framework of the aggregate economy.
Prerequisite(s)/Corequisite(s): ECON 2200 or BSAD 8180.

ECON 8290 RESEARCH METHODS IN ECONOMICS AND BUSINESS (3 credits)
Covers the methodology of economics: choosing a research topic, literature search tools, data source identification, data summary techniques, basic statistical data analysis using statistical packages, and clear economics writing. The student will become familiar with these techniques through text materials, journal studies, and completion of an empirical economics paper.
Prerequisite(s)/Corequisite(s): ECON 3200, ECON 3220, or equivalents, or permission of the instructor. Not open to non-degree graduate students.

ECON 8300 ECONOMETRICS (3 credits)
The study of the underlying assumptions, techniques and applications of single and multiple equation regression analysis in economics.
Prerequisite(s)/Corequisite(s): Basic Statistics, ECON 8306/ ECON 4300, or permission. Not open to non-degree graduate students.

ECON 8306 QUANTITATIVE APPLICATIONS IN ECONOMICS AND BUSINESS (3 credits)
The study and application of modern quantitative techniques to problem-solving in economics and business. (Cross-listed with ECON 4300).
Prerequisite(s)/Corequisite(s): ECON 2200 and ECON 2220, or BSAD 8180.

ECON 8310 BUSINESS FORECASTING (3 credits)
The course will cover forecasting tools and applications applied to business settings. We will cover traditional Econometric forecasting methods in the first half of the class. In the second half of the course, we will focus on models in predictive analytics and machine learning, since these models are quickly becoming critical tools for forecasters in many settings. The course will include lecture and lab time, and labs will be focused on teaching students how to implement the models discussed in lectures. (Cross-listed with BSAD 8080).
Prerequisite(s)/Corequisite(s): ECON 8320 (or equivalent programming experience) AND ECON 8300 (or equivalent multivariate regression analysis coursework) or permission of instructor. Not open to non-degree graduate students.

ECON 8316 BUSINESS INTELLIGENCE AND REPORTING (3 credits)
The course will teach students to use state-of-the-art Business Intelligence (BI) software to generate reports and information from data. BI software is used to inform decision-making in industries from transportation to medicine, from marketing to government, and is facilitated by rapidly increasing access to data in all industries. Students will learn to employ best practices in visualization and verbal communication as they are trained to create valuable insights from data and convey those insights to stakeholders. Additionally, the course will aid students in preparing for certification in the use of state-of-the-art BI software. (Cross-listed with ECON 4350).
Prerequisite(s)/Corequisite(s): ECON 3310 OR ECON 8320 (or concurrent enrollment) AND BSAD 2130 (or equivalent) OR Instructor Approval
ECON 8320 TOOLS FOR DATA ANALYSIS (3 credits)
The course will cover basic principles of programming languages, as well as libraries useful in collecting, cleaning and analyzing data to answer research questions. The course will utilize basic Economic principles and Econometric methods as inspiration for assignments and projects throughout the duration of the course, and will do so in a way that is accessible to non-Economists. This course is intended to introduce the student to the Python programming language as a tool for conducting data analysis. While the course uses Python, the student should be able to move to other languages frequently used in data analysis using the principles taught in this course.
Prerequisite(s)/Corequisite(s): ECON 2200 or BSAD 8150 (or equivalent); BSAD 2130 or equivalent; or instructor approval.

ECON 8326 NATURAL RESOURCE ECONOMICS (3 credits)
Energy, minerals, fisheries, water, land, pollution and congestion are among the topics. The course covers the basic theoretical framework for understanding the optimal rate of resource use, identifies the factors which determine the actual rate of use, and considers and evaluates various public policy prescriptions. (Cross-listed with ECON 4320).
Prerequisite(s)/Corequisite(s): ECON 2200 and ECON 2220, or BSAD 8180, or permission of instructor.

ECON 8330 DATA ANALYSIS FROM SCRATCH (3 credits)
Econometrics is routinely taught as an application class using a ‘black box’ like Stata or SAS to perform calculations. This class takes a different approach. Using the Python programming language, we build all estimators from scratch. Additionally, we introduce numerous non-parametric and simulation techniques. This approach to econometrics results in a stronger understanding of statistical assumptions and methods, a better understanding of when a method is appropriate, and stronger programming techniques. Furthermore, a deeper understanding of the underlying mechanics provides the student the ability to program custom procedures not already built into popular software packages.
Prerequisite(s)/Corequisite(s): A multivariate or regression analysis course such as ECON 8300, ISQA 9130 or STAT 8436, and a programming class such as ECON 8320 or equivalent programming experience; or instructor approval. Not open to non-degree graduate students.

ECON 8346 ECONOMICS OF TECHNOLOGY (3 credits)
The seminar discusses whether innovation is more driven by demand or supply forces, the optimal timing of adoption of new technology, whether new technology benefits workers and consumers, and whether government is successful at supporting promising new technology. (Cross-listed with ECON 4340).
Prerequisite(s)/Corequisite(s): ECON 2200 or BSAD 8180 or permission of the instructor.

ECON 8456 MONETARY THEORY AND POLICY (3 credits)
Monetary policy has an important effect on economic magnitudes, including the level of output, interest rates, inflation rates, exchange rates, and many other variables. This course provides an in-depth analysis of the role that the Federal Reserve plays in our economy. This involves how monetary policy is transmitted to various markets. (Cross-listed with ECON 4450).
Prerequisite(s)/Corequisite(s): ECON 3220, or permission of the instructor.

ECON 8576 ECONOMIC CONDITIONS ANALYSIS (3 credits)
This course teaches students how to conduct an economic analysis of, and produce an economic forecast for, a local economy such as a state, county, or metropolitan area. Students will learn where to find data, how to analyze that data, how to develop models with the data, and how to present the data in a clear, concise, and jargon-free manner. The final published report will be authored by the students registered in the course. All students will contribute equally to the final report. The instructor will ensure equal participation. (Cross-listed with ECON 4570).
Prerequisite(s)/Corequisite(s): ECON 2200 and ECON 2220, or Permission from the instructor.

ECON 8600 HEALTH ECONOMICS (3 credits)
This course is designed to help students understand how the theories and models of economics can be applied to the study of health and health care. The examination of the markets (demand and supply) for health, health care and health insurance is stressed. In addition, the economic analytic tools such as microeconomic theories and economic evaluation methods also will be reviewed and introduced. The objective of this course is to equip students with the knowledge tools to examine and analyze the problems issues of health care from the perspective of economics.
Prerequisite(s)/Corequisite(s): ECON 2200 or equivalent.

ECON 8616 INTERNATIONAL TRADE (3 credits)
An analysis of the character of international economic relations. Subjects covered include the economic basis for international specialization and trade, the economic gains from trade, commercial policy, economic integration and economic growth. (Cross-listed with ECON 4610).
Prerequisite(s)/Corequisite(s): ECON 2200 and ECON 2220, or BSAD 8180, or permission of instructor.

ECON 8626 INTERNATIONAL MONETARY ECONOMICS (3 credits)
An analysis of the international monetary system. Subjects covered include the balance of payments adjustment mechanism, alternative exchange rate systems, external effects of monetary and fiscal policy, foreign investments and international monetary reform. (Cross-listed with ECON 4620).
Prerequisite(s)/Corequisite(s): ECON 2200 and ECON 2220, or BSAD 8180, or permission of instructor.

ECON 8666 INTERNATIONAL ECONOMIC DEVELOPMENT (3 credits)
Problems relating to early stages of economic development; investment priorities, mobilizing savings and policies and programs are studied. (Cross-listed with ECON 4660).
Prerequisite(s)/Corequisite(s): ECON 2200 and ECON 2220, or BSAD 8180, or permission of instructor.

ECON 8706 ECONOMICS OF EBUSINESS (3 credits)
The course will be conducted mainly as a seminar with ample student participation, including a research paper. A ‘New Economy’ has often been identified with the rise of e-business. We will examine whether the rise of e-business has brought with it a change in the rules of the economy, and we will look at the effects of e-business on business, labor, consumers, and the stock market. (Cross-listed with ECON 8706, BSAD 8706).
Prerequisite(s)/Corequisite(s): Admission to the MBA program or the Economics graduate program or permission of the instructor.

ECON 8736 ECONOMICS OF ENTREPRENEURSHIP (3 credits)
This course will review economic theories of entrepreneurship with special emphasis on Schumpeter’s theory of creative destruction. The main focus of the seminar will be on the 'high-level' entrepreneurship that sometimes results in major innovations. This course will address the societal benefits of entrepreneurship, factors influencing entrepreneurial success, the policies that best encourage entrepreneurship, and how firms can survive and prosper in an entrepreneurial environment. (Cross-listed with ECON 4730, BSAD 8736).
Prerequisite(s)/Corequisite(s): ECON 2200 or permission of the instructor for all students.

ECON 8856 ECONOMICS OF URBAN AND REGIONAL DEVELOPMENT (3 credits)
This course will consider factors and trends in development at the global and national level but will focus primarily on economic development at the state, local, and regional levels in the United States. The focus of this course will be real world strategic planning for economic development. (Cross-listed with ECON 4850).
Prerequisite(s)/Corequisite(s): MATH 1310 or MATH 1220, ECON 2200 and ECON 2220, each with a ‘C’ (2.0) or better, or permission of instructor.
ECON 8910 SPECIAL STUDIES IN ECONOMICS (1-3 credits)
(May be repeated up to 6) A series of special courses, each designed to focus on current major issues and developments in a specific area of economics or business, scheduled as a workshop or seminar according to purpose.
Prerequisite(s)/Corequisite(s): Graduate student in good standing and as indicated for specific workshop or seminar.

ECON 8916 SPECIAL TOPICS IN ECONOMICS (1-3 credits)
(May be repeated up to 6 hours) A series of special courses each designed to focus on current major topics and developments in a specific area of economics or business, scheduled as a workshop or seminar according to purpose. (Cross-listed with BSAD 8916, ECON 4910).
Prerequisite(s)/Corequisite(s): Graduate student in good standing or advanced undergraduate student and as indicated for specific workshop or seminar.

ECON 8920 INDEPENDENT STUDY (1-3 credits)
Guided independent study and research under tutorial supervision.
Prerequisite(s)/Corequisite(s): Graduate student in economics and permission of instructor.

ECON 8930 INDEPENDENT STUDY (1-3 credits)
Guided independent study and research under tutorial supervision.
Prerequisite(s)/Corequisite(s): Graduate student in economics and permission of instructor.

ECON 8940 ECONOMIC INTERNSHIP (1-3 credits)
Guided internship in a firm or organization that makes use of, or extends, the student's skill in economics.
Prerequisite(s)/Corequisite(s): Completion of at least nine hours of graduate level economics and permission of instructor.

ECON 8990 THESIS (1-6 credits)
An independent research project, written under the supervision of a graduate adviser in the department of economics. Approval of the topic and the completed project by departmental committee is required.